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**OPTICAL PICKUP APPARATUS, RECORDING/REPRODUCING APPARATUS
PROVIDED WITH THE OPTICAL PICKUP APPARATUS, OPTICAL ELEMENT,**

AND INFORMATION RECORDING/REPRODUCING METHOD

This application is a CON of 09/487,928 01/20/2000 PAT 6,820,805

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BACKGROUND OF THE INVENTION

The present invention relates to an optical pickup apparatus, a recording/reproducing apparatus with the optical pickup apparatus, an optical element, and an information recording/reproducing method.

Recently, as the practical application of the short wavelength red laser, a DVD which is a high density optical information recording medium (called also optical disk) having almost the same dimension as a CD (compact disk) and the larger capacity, comes into the production. In a DVD recording/reproducing apparatus, the numerical aperture NA on the optical disk side of an objective lens when a semiconductor laser of 650 nm is used, is 0.6 - 0.65. The DVD has a track pitch of 0.74 μm , and the minimum pit length of 0.4 μm , and is in densification, in which dimensions are